

### What is claimed is:

[Claim 1] A structural component made of long-fiber reinforced thermoplastic material with integrated continuous fiber-reinforcements, the component comprising:

- at least three individually integrated, shaped continuous fiber profiles,
- the at least three continuous-fiber profiles running together at a location,
- the at least three continuous-fiber profiles, at the location where they run together, defining a three-dimensionally developed intersection point,
- wherein at the intersection point at least a first continuous-fiber-profile lies in an upper plane of the intersection point, at least a second continuous-fiber profile lies a lower plane of the intersection point, and wherein at least a third continuous-fiber-profile with a vertical extension extends continuously between the first and second continuous-fiber-profiles;
- wherein the continuous-fiber-profiles are joined together by the long-fiber-reinforced thermoplastic material at the intersection point.

[Claim 2] The structural component of claim 1, characterised in that points of introduction of external force are formed by means of shapings of the long-fiber-reinforced thermoplastic, or by shapings of continuous-fiber profiles, or both.

[Claim 3] The structural component of claim 1, characterised in that the three-dimensional intersection points are developed as "X"-, "T"- or "L"-shaped.

[Claim 4] The structural component of claim 1, characterised in that the continuous-fiber-profiles are arranged in such a manner at the intersection point, that the continuous-fiber-profiles are capable of being inserted into a shaping tool for long-fiber-reinforced thermoplastic one after the other or together, and subsequently are capable of being pressed together with an introduced, molten long-fiber-reinforced thermoplastic-mass (6) in a press for long-fiber-reinforced thermoplastic in a single step and into a one-piece component.

- [Claim 5] The structural component of claim 1, characterised in that the continuous-fiber- profiles are built up out of layers with differing fiber orientations.
- [Claim 6] The structural component of claim 1, characterised in that the long-fiber-reinforced thermoplastic mass comprises an average fiber length of at least 3 mm.
- [Claim 7] The structural component of claim 1, characterised in that the continuous-fiber - profiles comprise a continuous fiber reinforcement made out of glass -, carbon - or aramide fibers.
- [Claim 8] The structural component of claim 1, characterised in that the thermoplastic material of the long-fiber-reinforced thermoplastic mass 6) and of the continuous-fiber - profiles consists of partially crystalline polymers selected from the set consisting of polypropylene, polyethylene-terephthalate, polybutylene-terephthalate and polyamide.
- [Claim 9] The structural component of claim 1, characterised in that the continuous-fiber profiles comprise a three-dimensional profile shaping.
- [Claim 10] The structural component of claim 1, characterised in that the continuous-fiber - profiles comprise a bend, a twist, a fold or a surface structuring in longitudinal direction.
- [Claim 11] The structural component of claim 1, characterised in that the continuous-fiber- profiles comprise differing cross-sectional shapes.
- [Claim 12] The structural component of claim 1, characterised in that shapings on the continuous-fiber - profiles and shapings of the long-fiber-reinforced thermoplastic mass are provided for force introductions and for force transmissions between the continuous-fiber- profiles and the long-fiber-reinforced thermoplastic - mass as well as to inserts.
- [Claim 13] The structural component of claim 1, characterised in that a continuous-fiber - profile with a positioning shoulder, a thick tensile - and compressive force zone on

top and underneath as well as a thinner thrust zone in between is formed, which is positioned in a rib or in a crimp wall of the structural component.

[Claim 14] The structural component of claim 1, characterised in that the continuous-fiber – profiles form a moment – load lever structure with a T-shaped or L-shaped three-dimensional intersection point.

[Claim 15] The structural component of claim 1, characterised in that the structural component forms a single seat back with a belt connection.

[Claim 16] The structural component of claim 1, characterised in that the structural component forms a two-thirds rear seat back with belt connection and lock.

[Claim 17] The structural component of claim 1, characterised in that the structural component forms a seat shell or a cabin floor.

[Claim 18] The structural component of claim 1, characterised in that the structural component forms a supporting structure of a car door with integrated side-crash protection.

[Claim 19] The structural component of claim 1, characterised in that the structural component is assembled out of at least two parts welded together.

[Claim 20] A method for the manufacturing of a structural component, the method comprising the steps of:

depositing several shaped continuous-fiber- profiles in a tool for shaping long-fiber-reinforced thermoplastic, n LFT – shaping tool,

the profiles deposited one after another or together;

subsequently introducing a long-fiber-reinforced thermoplastic mass;

in a single step, pressing the long-fiber-reinforced thermoplastic mass together with the continuous-fiber – profiles into a one-piece component.